

Light Emitting Diodes 2002: Strategic Summit Forecasts Solid State Lighting Market

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LEDs 2002

October 21 Pre-conference workshops

October 22-23 Conference and exhibits

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Solid state lighting industry leaders are gearing up for growth as LEDs supercede conventional light sources in high volume lighting applications. To spur cooperation and competition, over 200 international LED executives, researchers and designers will gather October 21 to 23 in San Diego, California for Intertech's third annual LED conference. Three themes tie together the workshops, conference and exhibits: breakthrough technology updates; system design advances; and, market application strategies.

Two intensive workshops precede the conference. Boston University's Professor Fred Schubert will present "The Fundamentals of White LEDs." A specialist in GaN technology and devices who holds 25 patents, Schubert will cover state-of-the-art approaches to creating white light that is both bright and of the high quality demanded by designers. Lumileds Lighting's Application Manager Uwe Thomas draws upon more than a decade of optoelectronics experience from the automotive market to present, "System Lighting Design with High Power LEDs."

Participants who are new to semiconductors should appreciate the practical recommendations for electrical, thermal and optical systems design, in addition to considering reliability of devices and systems.

The two-day conference moves at a fast pace to accommodate 30 high level speakers. The format includes Q&A, a panel session, and networking during exhibit hours and sponsored meals. A "Whirlwind Tour of Solid State Lighting Applications" by LED Consulting and an analyst's "Overview of the HB LED Market" by Needham & Co., Inc. open the conference, followed by technology updates from Tridonic Optoelectronics, Toyoda Gosei Co. Ltd., AXT LED Technologies, United Epitaxy Co. Ltd, and Osram Optosemiconductors GmbH. Cutting edge research initiatives will be described by

University of Arizona, Sandia and Lawrence Berkeley National Laboratories, and TIR Systems. A showcase of expanding applications rounds out the first day: "Backlighting for LCD Displays" by Lumileds, "Illuminating Mobile Phones" by Nokia, "New Applications in Architecture" by Kennedy Violich Architects, "Architectural Lighting Products" by Targetti North America, and "The Reuters Instinet Sign at 3 Times Square" by ESI Design.

In keeping with the systems approach to lighting design, a session on enabling technologies launches the second day. Emcore Corporation presents, "Advances in MOVPE Growth Technology for HB LEDs," Philips asserts that, "The Driver Makes the Difference," Aixtron AG covers two bases with "CVD Technology for Inorganic and Organic LEDs," Instrument Systems GmbH looks at "LED Optical Measurement and Standards Issues, and Reflexite Display Optics turns the lens to "Microstructured Optics for LED Applications." To explore public benefits, panelists from Agilent, Color Kinetics, Dialight, the Japan Electric Lamp Manufacturers Association and Oriol will discuss "LEDs, Energy and the Environment."

Strategic growth opportunities-LEDs on the move in the water, on land and in the air-are featured by Pearl Harbor U.S. Naval Shipyard, Osram Optosemiconductors, Transportation & Energy Solutions, and Permlight, Inc.

Off-grid applications wrap up the event: Carmanah Technologies Inc. connects with "LED Technology and Solar Power," Laughing Rabbit, Inc. keeps LEDs on hand with "Portable Battery Powered Lighting Guides," and the University of Calgary reminds us that seeing is knowing with a "Light up the World Update." Any Conference-goers still standing will have the opportunity to further enjoy San Diego's sand and sun!